

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

EFS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/580,746  
Source: FWO  
Date Processed by STIC: 4/9/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/580,746

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
  
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
  
- 5 ✓ Variable Length     Sequence(s) 4 contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
                               (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                               (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                               This sequence is intentionally skipped  
                               Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
                               <210> sequence id number  
                               <400> sequence id number  
                               000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                               Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                               In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
  
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
  
- 11      Use of <220>     Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
  
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

## RAW SEQUENCE LISTING

DATE: 04/09/2007

PATENT APPLICATION: US/10/580,746

TIME: 15:41:49

Input Set : N:\EFS\04\_09\_07\10580746\_efs\22122-00006\_ST25.txt

Output Set: N:\CRF4\04092007\J580746.raw

3 <110> APPLICANT: CureVac GmbH  
 5 <120> TITLE OF INVENTION: Combination therapy for immunostimulation  
 7 <130> FILE REFERENCE: 22122-00006-US1  
 9 <140> CURRENT APPLICATION NUMBER: 10/580,746  
 10 <141> CURRENT FILING DATE: 2006-05-26  
 12 <150> PRIOR APPLICATION NUMBER: PCT/EP2005/009383  
 13 <151> PRIOR FILING DATE: 2005-08-31  
 15 <160> NUMBER OF SEQ ID NOS: 8  
 17 <170> SOFTWARE: PatentIn version 3.4  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 20  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Unknown  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: CpG motif containing DNA  
 27 <400> SEQUENCE: 1  
 28 tccatgacgt tctgatgct  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 20  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Unknown  
 36 <220> FEATURE:  
 37 <223> OTHER INFORMATION: CpG motif containing DNA  
 39 <400> SEQUENCE: 2  
 40 tccaggactt ctctcaggtt  
 43 <210> SEQ ID NO: 3  
 44 <211> LENGTH: 13  
 45 <212> TYPE: RNA  
 46 <213> ORGANISM: synthetic  
 48 <400> SEQUENCE: 3  
 49 gccgccacca ugg  
 52 <210> SEQ ID NO: 4  
 53 <211> LENGTH: 15  
 54 <212> TYPE: RNA  
 55 <213> ORGANISM: artificial  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: RNA stabilizing sequence  
 61 <220> FEATURE:  
 62 <221> NAME/KEY: misc\_feature  
 63 <222> LOCATION: (1)..(1)  
 64 <223> OTHER INFORMATION: n = c or u  
 66 <220> FEATURE:  
 67 <221> NAME/KEY: misc\_feature

*see p 1-2*

**Does Not Comply**  
**Corrected Diskette Needed**

20

20

13

*evaluated response. see item 10 on Enr summary sheet*

*please try to give source of genetic material*

*(see item 11 on Enr summary sheet)*

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DATE: 04/09/2007

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Input Set : N:\EFS\04\_09\_07\10580746\_efs\22122-00006\_ST25.txt

Output Set: N:\CRF4\04092007\J580746.raw

68 <222> LOCATION: (5)..(5)  
 69 <223> OTHER INFORMATION: n = a or g or c or u  
 71 <220> FEATURE:  
 72 <221> NAME/KEY: repeat\_unit  
 73 <222> LOCATION: (5)..(5)  
 74 <223> OTHER INFORMATION: repeat number: (x)  
 76 <220> FEATURE:  
 77 <221> NAME/KEY: misc\_feature  
 78 <222> LOCATION: (9)..(9)  
 79 <223> OTHER INFORMATION: n = u or a  
 81 <220> FEATURE:  
 82 <221> NAME/KEY: repeat\_unit  
 83 <222> LOCATION: (10)..(10)  
 84 <223> OTHER INFORMATION: repeat number: (x)  
 86 <220> FEATURE:  
 87 <221> NAME/KEY: misc\_feature  
 88 <222> LOCATION: (10)..(10)  
 89 <223> OTHER INFORMATION: n = pyrimidine  
 91 <220> FEATURE:  
 92 <221> NAME/KEY: misc\_feature  
 93 <222> LOCATION: (13)..(13)  
 94 <223> OTHER INFORMATION: n = c or u  
 96 <400> SEQUENCE: 4

If "x" is a definite number of repeats  
 (e.g., 10 or 15 or 20), please list  
 maximum number of n's; if it  
 is indefinite, please state so.

(see item 5 on  
 Error summary  
 sheet)

W--&gt; 97 nccanccnn ucncc

15

100 <210> SEQ ID NO: 5  
 101 <211> LENGTH: 9  
 102 <212> TYPE: PRT  
 103 <213> ORGANISM: synthetic  
 105 <400> SEQUENCE: 5  
 107 Thr Pro His Pro Ala Arg Ile Gly Leu  
 108 1 5

invited response

111 <210> SEQ ID NO: 6  
 112 <211> LENGTH: 45  
 113 <212> TYPE: DNA  
 114 <213> ORGANISM: Xenopus sp.  
 116 <400> SEQUENCE: 6  
 117 gcttggttctt tttgcagaag ctcagaataa acgctcaact ttggc

45

120 <210> SEQ ID NO: 7  
 121 <211> LENGTH: 157  
 122 <212> TYPE: DNA  
 123 <213> ORGANISM: Xenopus sp.  
 125 <400> SEQUENCE: 7  
 126 gactgactag gatctggtta ccactaaacc agcctcaaga acaccogaat ggagtctcta  
 128 agctacataa taccaactta cacttacaaa atgttgctcc ccaaaatgta gccattcgta  
 130 tctgctccta ataaaaagaa agtttcttca cattcta  
 133 <210> SEQ ID NO: 8  
 134 <211> LENGTH: 56  
 135 <212> TYPE: DNA  
 136 <213> ORGANISM: Homo sapiens

60

120

157

## RAW SEQUENCE LISTING

DATE: 04/09/2007

PATENT APPLICATION: US/10/580,746

TIME: 15:41:49

Input Set : N:\EFS\04\_09\_07\10580746\_efs\22122-00006\_ST25.txt

Output Set: N:\CRF4\04092007\J580746.raw

138 &lt;400&gt; SEQUENCE: 8

139 ctagtgactg atagcccgct gggcctccca acgggccctc ctccctctct tgcacc 56

## RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 04/09/2007

PATENT APPLICATION: US/10/580,746

TIME: 15:41:50

Input Set : N:\EFS\04\_09\_07\10580746\_efs\22122-00006\_ST25.txt

Output Set: N:\CRF4\04092007\J580746.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 1,5,9,10,13

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4

VERIFICATION SUMMARY

DATE: 04/09/2007

PATENT APPLICATION: US/10/580,746

TIME: 15:41:50

Input Set : N:\EFS\04\_09\_07\10580746\_efs\22122-00006\_ST25.txt

Output Set: N:\CRF4\04092007\J580746.raw

L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0